# **Configure Offline (Air-gapped) Licensing on 9800** WLC

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### Introduction

This document describes how to configure offline (air-gapped) licensing on Catalyst 9800 Wireless LAN Controller (WLC).

# Prerequisites

### Requirements

Recommended knowledge of 9800 WLC and CSSM (Cisco Smart Software Manager) portal basic operation.

### **Components Used**

The information in this document is based on these software and hardware versions but applies to all versions after 17.3:

• Virtual 9800-CL WLC version 17.9.5

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

### Configure

### **Network Diagram**



### Configurations

#### Step 1. On the WLC

1. Set Licensing connection mode to Air Gap and AirGap Feature to Enabled:



The CLI equivalent is:

9800-17-09-05(config)#license smart transport off

2. Export the RUM report from the WLC. This saves your current license consumption to a file:

9800-17-09-05#license smart save usage all file bootflash:rum.txt

#### Step 2. On the CSSM

- 1. Log into your CSSM account.
- 2. Navigate to Reports tab, then Usage Data Files. Click Usage Data Files:

Smart Software Licensing	Feedback Support	t Hel
Alerts   Inventory   Convert to Smart Licensing Reports   Preferences   On-Prem Accounts   Activit	/	
Reports		
Report Usage Data Files Reporting Policy Synch File for Device Controllers		
Devices can be configured to report the features that they are using.		
This usage then determines which licenses are needed, in order to be compliant. Upload Usage Data	Search by File Name, Virtual Account	
Usage Data File     Reported     Virtual Account     Re	porting Status Devices Acknowledgement	

3. Click Browse, then select the RUM report that was obtained from the WLC. Click Upload Data:

### Upload Usage Data

Please select the Usage File you wish to upload.

Usage Data File:
 Browse
 No File Chosen

4. Once the RUM report is uploaded to the CSSM, the **Download** button appears under the **Acknowledgement** column. Click **Download**:

Reports									
Report	Usage Data Files	Reporting Policy	Synch File for	Device Controllers					
Devices can This usage ( Upload	te configured to report th hen determines which lice Usage Data	e features that they are un rease are needed, in order	sing. r to be compliant.			Search by File Alame, V	Artual Account		Q,
🛞 Usag	o Data File	Repo	betro	Wrtual Account	Reporting 5	Status	Devices	Acknowledgement	
AVR.04		2024	Feb-29		O No Errora		2	Download	

Upload Data

Cancel

#### Step 3. On the WLC

Import the ACK on the WLC:

9800-17-09-05#license smart import bootflash:ACK\_rum.txt Import Data Successful



Note: After a license factory reset, you must wait at least 1 hour to generate the RUM report.

# Verify

After applying the configuration steps above, the WLC appears on the CSSM under **Inventory** > **Product Instances**.

If an active WLC from the HA pair was registered, both active and standby WLCs are shown under the **Product Instances** tab on CSSM.

Example of an output from a successfully configured WLC:

----- show license status -----

Utility: Status: DISABLED

Smart Licensing Using Policy: Status: ENABLED
Account Information: Smart Account: <organization_name> As of Feb 29 15:24:40 2024 UTC Virtual Account: <account_name></account_name></organization_name>
Data Privacy: Sending Hostname: yes Callhome hostname privacy: DISABLED Smart Licensing hostname privacy: DISABLED Version privacy: DISABLED
Transport: Type: Transport Off
Policy: Policy in use: Merged from multiple sources. Reporting ACK required: yes (CISCO default) Unenforced/Non-Export Perpetual Attributes: First report requirement (days): 365 (CISCO default) Reporting frequency (days): 0 (CISCO default) Report on change (days): 90 (CISCO default) Unenforced/Non-Export Subscription Attributes: First report requirement (days): 90 (CISCO default) Reporting frequency (days): 90 (CISCO default) Reporting frequency (days): 90 (CISCO default) Report on change (days): 90 (CISCO default) Report on change (days): 90 (CISCO default) Enforced (Perpetual/Subscription) License Attributes: First report requirement (days): 0 (CISCO default) Report on change (days): 0 (CISCO default) Report (Perpetual/Subscription) License Attributes: First report requirement (days): 0 (CISCO default) Report on change (days): 0 (CISCO default)
Miscellaneous: Custom Id: <empty></empty>
Usage Reporting: Last ACK received: Feb 29 15:27:53 2024 UTC Next ACK deadline: May 29 15:27:54 2024 UTC Reporting push interval: 30 days Next ACK push check: <none> Next report push: Mar 30 15:27:54 2024 UTC Last report push: Feb 29 15:27:54 2024 UTC Last report file write: <none></none></none>
Trust Code Installed: Active: PID:C9800-CL-K9,SN: <serial_number> INSTALLED on Feb 29 15:27:53 2024 UTC Standby: PID:C9800-CL-K9,SN:<serial_number_stbdy> INSTALLED on Feb 29 15:27:53 2024 UTC</serial_number_stbdy></serial_number>

### Troubleshoot

If the RUM upload to the CSSM portal fails, it can be because your WLC is already registered through direct connection on the portal. Delete the device from the CSSM inventory. You can then upload the RUM

report.

# References

• Configure Licensing with SLUP